



## Section 1: Identification of the Material and Supplier

**Product Name:** Penetrating Seal

**Other Names:** Polyurethane resin in mixed naphtha solvent.

**Proper shipping name (ADG Code):** Resin solution, flammable.

**Recommended use:** As a sealant for floors. Use as directed on the product label.

**Supplier:** Hunters Products (TAS) Pty. Ltd.,  
A.C.N. 004 601 263

### HEAD OFFICE

60 Gleadow Street,  
INVERMAY TAS 7248  
Tel: 03 6331 4755  
Fax: 03 6334 1065

### HOBART OFFICE

105 Albert Road,  
MOONAH TAS 7009  
Tel: 03 6228 7955  
Fax: 03 6228 7988

### BURNIE OFFICE

22 Pearl Street,  
WIVENHOE TAS 7320  
Tel: 03 6431 9627  
Fax: 03 6432 2083

### Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Dangerous goods.

**Risk Phrases:**

R: 10	Flammable.
R: 36/37/38	Irritating to eyes, respiratory system and skin.
R: 65	Harmful: May cause lung damage if swallowed.

**Safety Phrases:**

S: 16	Keep away from sources of ignition.
S: 23	Do not breathe vapours.
S: 33	Take precautionary measures against static discharges.
S: 37/39	Wear suitable gloves and eye/face protection.
S: 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).
S: 62	If swallowed, do not induce vomiting; seek medical advice immediately and show the label or container.

## Section 3: Composition/Information on Ingredients

### Ingredients:

Proprietary polyurethane resin		30 - 60 %
Mineral turpentine	[64742-95-6]	10 - 30 %
White spirit	[8052-41-3]	10 - 30 %
Lead naphthenate	[61790-14.5]	< 10 %
Cobalt naphthenate	[61789-51-3]	< 10 %

*Lead content*            *0.11 % calculated on the whole product.*  
                                  *0.25 % calculated on the non-volatile portion.*

## Section 4: First Aid Measures

**For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.**

Swallowed: Do not induce vomiting.

Skin: Remove contaminated clothing and wash skin thoroughly.

Eyes: Hold eyes open, flood with water for at least 15 minutes and seek medical advice.

Inhaled: Remove from exposure.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is a resin solution in mixed naphthas. Irritating to eyes, respiratory system and skin. An aspiration risk. Contains very low proportions of lead and cobalt compounds. Contact Poisons Information Centre.

### Aggravated medical conditions:

Pre-existing skin disorders, liver or kidney disfunction.

## Section 5: Fire Fighting Measures

**HAZCHEM Code:** 3[Y]

**Extinguishant:** Foam or dry agent.

**Risk of violent reaction or explosion:** Yes.  
 Vapours are heavier than air - risk of remote ignition.

**Products of combustion:** Oxides of carbon, toxic fumes including lead oxide and cobalt oxide.

**Protective Equipment:** Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

**Emergency Procedures:**

Contain.  
Shut off all sources of ignition.  
Increase ventilation.

**For large spills:**

Contain spillages with sand or earth. Transfer both liquid and solids to suitable closed container(s). Treat residues as for small spills.

**For small spills:**

Absorb on inert absorbent and transfer to suitable closed container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

## Section 7: Handling and Storage

**Precautions for safe handling:**

Avoid contact with skin and eyes.  
Avoid breathing concentrated vapours.  
Keep away from naked flames and other sources of ignition.

**Conditions for safe storage:**

Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded flammables store. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from naked flames and other sources of ignition. Prevent vapours from collecting in enclosed or low lying spaces. Take precautionary measures against static discharges. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

**Incompatibles:**

Oxidising agents.

## Section 8: Exposure Controls/Personal Protection

**National Exposure Standards:**

<b>ES-TWA:</b>	Mineral turpentine	480 mg/m <sup>3</sup>
	White spirit	790 mg/m <sup>3</sup>

**ES-STEL:** None assigned by NOHSC.

**ES-PEAK:** None assigned by NOHSC.

**Notations:** None.

**Biological Limit Values:** No data found.

**Engineering Controls:**

Use **only** flame proof equipment.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, or if vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.

**Personal Protective Equipment:**

Avoid contact with skin and eyes. Avoid breathing concentrated vapours. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

**Normal Use:**

Eye/face protection  
Gloves, rubber or plastic.

**Industrial Quantities:**

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance:	Clear, amber liquid.
Odour:	Mild hydrocarbon odour.
pH:	Not applicable.
Vapour Pressure:	No data.
Vapour Density:	4.5 - 4.8 (Air = 1)
Boiling Point:	From about 147 °C
Melting Point:	No data.
Volatiles:	57 %
Volatile Organic Compounds (VOC):	57 %
Evaporation Rate:	0.08 - 0.16 (n-butyl acetate = 1)
Solubilities:	Insoluble in water.
Specific Gravity/Density:	0.8 - 0.9 g/mL.
Flash Point:	36 °C (closed cup)
Flammable Limits:	0.6 - 8.0 %
Dust Explosion:	Not applicable.
Auto-ignition Temperature:	About 250 °C

**Other Information:**

Miscible with hydrocarbons. May react with strong oxidising agents. Slippery when spilled.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Incompatible materials, sources of ignition.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon, oxides of lead, oxides of cobalt.

**Hazardous Reactions:** Contact with strong oxidising agents may cause fire.

## Section 11: Toxicological Information

**Health Effects:**

No data available for the mixture. Information presented relates to individual ingredients.

**Acute:**

**Swallowed:** Harmful or fatal if swallowed. Likely to cause gastric upset, nausea, vomiting and diarrhoea. May cause sore throat, cough, dizziness, drowsiness, headache, intoxication, weakness, muscle twitches, convulsions. Large doses may lead to other central nervous system effects, including loss of consciousness and coma. A serious aspiration risk.

**Skin:** Irritating to skin. Will degrease the skin, leading to dryness, irritation, soreness, inflammation and possible dermatitis. May cause cyanosis of the extremities (bluish skin). May cause burns if trapped against the skin (e.g. with wet clothing).

**Eyes:** Irritating to eyes. Vapours may irritate the eyes from about 450 ppm, while liquid splashes may cause redness, pain, chemical conjunctivitis, tissue or corneal damage.

**Inhaled:** Concentrated vapours will be irritating to the nose, throat and upper respiratory system. Symptoms may include confusion, dizziness and euphoria, headache, fatigue, weakness, nausea, difficulty breathing, chest pains, muscle twitches, convulsions, loss of consciousness (at high concentrations), and possible death. Aspiration into the lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues), pulmonary oedema (fluid in the lungs) or lung damage. Even small amounts drawn into the lungs may be fatal. Onset of symptoms may be delayed.

**Chronic:** Repeated skin contact may lead to dermatitis. Chronic exposure to solvent vapours may cause damage to the liver, kidneys and the bone marrow. Possible risk of blood disorders, dermatitis and central nervous system complications.

**LD<sub>50</sub>:**

Mineral turpentine	8,400 mg/kg oral, rat.
White spirit	> 5,000 mg/kg oral, rat.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	May be harmful to aquatic organisms.
<b>Persistence and degradability:</b>	No data.
<b>Mobility:</b>	Solvents will evaporate to air.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	Heavy metals (e.g. lead) can be bioaccumulated in aquatic organisms.
<b>Other adverse environmental effects:</b>	No data.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to sewer, natural waters or the environment.

**Special precautions for landfill or incineration:**

High temperature incineration may generate traces of lead and cobalt oxide fume.

Landfill may be suitable once all solvents have evaporated.

## Section 14: Transport Information

<b>UN Number:</b>	1866
<b>UN Proper shipping name:</b>	Resin solution, flammable.
<b>Class and subsidiary risk:</b>	3 Flammable liquid.
<b>Packaging group:</b>	III
<b>Special precautions for user:</b>	Keep away from sources of ignition, oxidisers.
<b>HAZCHEM Code:</b>	3[Y]
<b>Material for export:</b>	Regulated. Refer to <b>IMDG</b> or <b>IATA/ICAO</b> .

## Section 15: Regulatory Information

**Poisons (SUSDP):** S6  
*A third schedule paint containing more than 0.1 % of lead calculated on the non-volatile content.*

**Dangerous Goods:** Yes. UN 1866, class 3/III.

<b>Carcinogen:</b>	<b>Australia</b>	<b>IARC</b>	<b>NTP</b>	<b>RTECS</b>
	No.	No.	No.	No.

**Agricultural and Veterinary Chemicals Act:** No data.

**Australian Inventory of Chemical Substances (AICS):** Listed.

**Other National/International Regulations:** No data.

## Section 16: Other information

**Date of MSDS update:** July 2004  
 Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
 ACGIH - American Conference of Governmental Industrial Hygienists.  
 MAK - Maximum workplace concentration - Germany,  
*(maximale Arbeitsplatzkonzentration)*  
 IARC - International Agency for Research on Cancer (France).  
 NPT - National Toxicology Program (USA).  
 RTECS - Registry of Toxic Effects of Chemical Substances.  
 HSE - Health and Safety Executive (United Kingdom).

**Literature references:**

**Other Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [1005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*